

US DEPARTMENT OF AGRICULTURE
FOREST SERVICE



Northeastern Area
State & Private Forestry
DIVISION OF FOREST PEST CONTROL

5220



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Report No. S-69-34

October, 1969

AERIAL SURVEY OF JACK-PINE BUDWORM
DEFOLIATION ON THE CHEQUAMEGON NATIONAL FOREST

By Glen Erickson

INTRODUCTION

Jack-pine budworm, Choristoneura pinus pinus Freeman, defoliation in northern Wisconsin has been reported during most of the last decade. The most recent outbreak began west of the forest in 1965, spread to the Washburn Ranger District in 1966 and persisted for 2 years. Defoliation has been on the decline since.

METHODS

An aerial survey was flown August 13, 1969, in the Forest Service Aero-commander. Flights were in a north-south direction; in parallel lines 4 miles apart; 1000 feet above the ground; at 100 m.p.h.

Defoliation conditons were classed as follows:

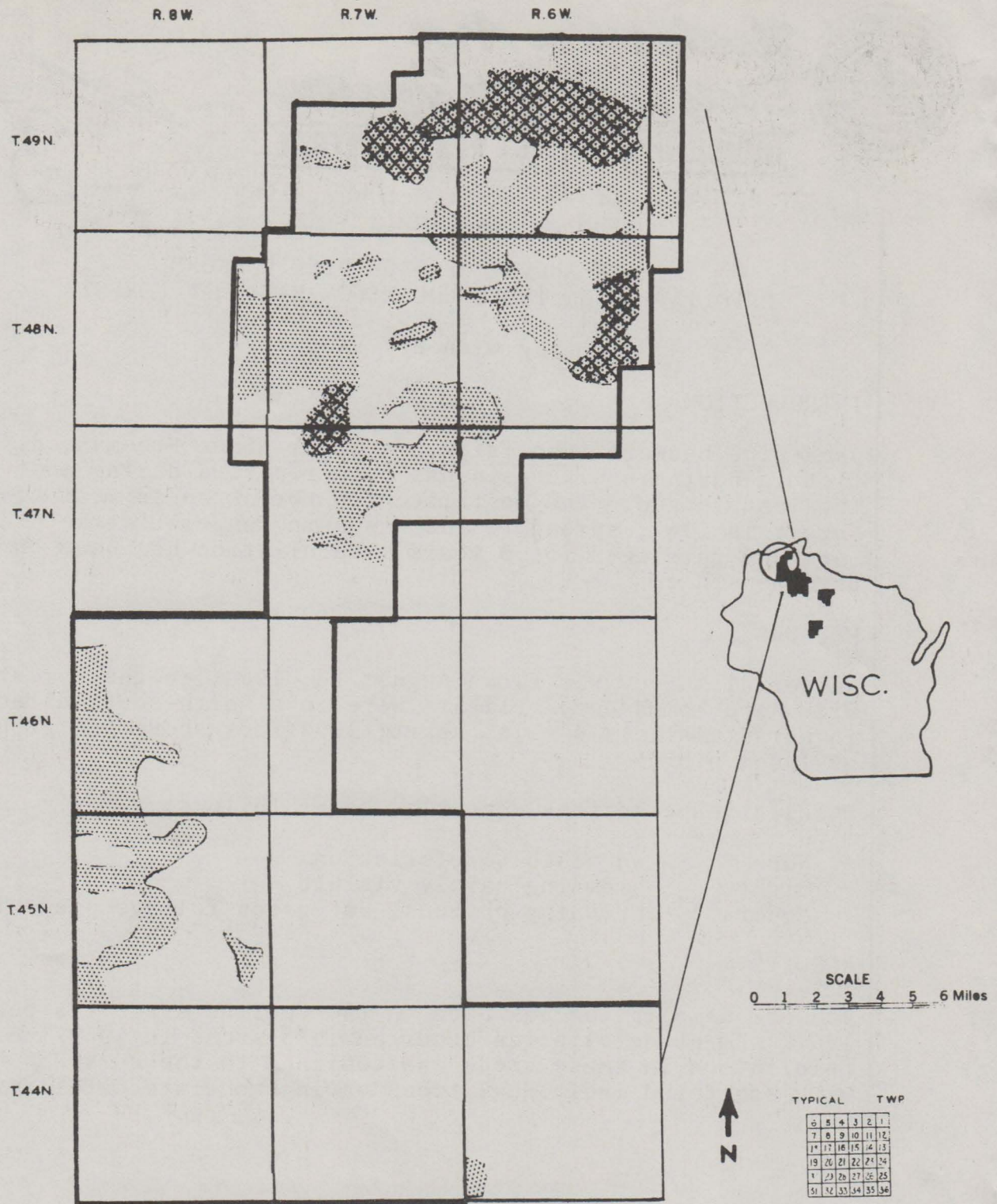
- None - no visible defoliation
- Light - browning barely visible
- Moderate - browning obvious, but green foliage predominates

RESULTS

Budworm defoliation has been on the decline since its peak in 1967. Light defoliation occurred in 3 areas in 1969 (see map). Defoliation in these areas was confined to the current shoots with scattered individual trees having moderate defoliation.



CHEQUAMEGON NATIONAL FOREST



JACK - PINE BUDWORM DEFOLIATION - 1969

LIGHT
 JACK - PINE TYPE